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50X1-HUM

Turbinenfabrik DRESDEN and EKM STROMUNGSBURO, DRESDEN: Current Contracts and Planned Output in 1951.

# 1. EKM STROMUNGSBURO, DRESDEN.

(a) The following research and development projects were being undertaken by the Design Office - late August, 1950:

## Project.

50X1-HUM

"Einheits" (?universal) Water-Turbines ("Francis" type).

Propeller Water-Turbines ("Kaplan" type).

Turbo-blowers (Turboverdichter).

Blade-milling machine for axial blade whoels.

Liquid clutches and gears.

Exhaust-steam turbines (similar to "Bauer-Wach" type).

Experiments into Steam-turbine blade patterns.

Experiments into the flow-dynamics of rotors and guide-wheels.

A "Schnellschlussvorrichtung" for waterturbines (independent of the regulator).

Exhaust-gas Turbo-blowers.

Suction-axial blowers ("Saugzugaxialgebläse"), - similar to the "Sohicht" type.

Very high-speed single-stage turbo compressors with special housing.

Examination of the noise question of single stage high-powered axial blowers.

(b) DM 300,000 is to be spent on research and development during 1951. This is part of the DM 250 million granted for research and development in the DDR as a whole.

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### 2. Turbinenfabrik DRESDEN.

- (a) The Soviet Ministry of Forestry has ordered a further 600 mobile electro-generating stations in addition to the current order 400 are to be assembled by Waggonbau 50X1-HUM WERDAU (VVB LOWA) and 200 by Waggonbau WEIMAR. The sub-contractors include EKM Turbinenfabrik DRESDEN, who will supply 400 TL.300. turbines, valued at IM (0st) 624,000 and the WEIMARISCHE Maschinenfabrik, WEIMAR, who will supply 200 turbines of a similar type. La Mont Eckrohr boilers are to be installed.
- (b) The target date for the completion and testing of the G-18-A gas turbine has been put back to 30th June, 1951, or six months after the arrival of the necessary runner wheels, whichever is the later.
- (c) Eight heavy production machines have been purchased during 1950, and a further sixteen will be bought in 1951, at an estimated cost of DM 250,000. These include lathes from MEUSELWITZ and the Nileswerke, CHEMNITZ., automatic milling-machines, automatic tools and blade milling-machines. It had been planned to extend the plant's premises, but this has had to be postponed until 1953 owing to the demands of the new steel plant at FUERSTENBERG (Hittenkombinat Ost) for building materials.
- (d) The raw material situation has improved recently with the regular arrival of blade material from Poldindtte.
- (e) Originally, the Ministry of Planning demanded the output in 1951 of new turbines to a total power of 150,000 kw. in the DDR as a whole. Dr. KNOCH (fnu), the responsible official in the Ministry of Industry said that this was impossible, and the final estimates are as follows:

| GORLITZ<br>DRESDEN | ****** | 37,000<br>30,000 | kw. |
|--------------------|--------|------------------|-----|
| BERGMANN/BORSIG    |        | 10,000           | kw. |
| TOTAL              |        | 77,000           | kw, |

3. The total output of Turbinenfabrik DRESDEN during 1949 and the first half of 1950 was allocated as follows (DM (Ost) thousands):

| (a) | German Consumers.   | <u> 1949</u> .                    | 1st Half<br>1950.             |
|-----|---|-----------------------------------|-------------------------------|
|     | Power-Stations<br>Railways and Transport  | 267<br>237                        | <del>5</del> 9                |
|     | Machine-construction industry Foodstuffs industry Textile industry Paper industry Mining and Petroleum Harbours | 20<br>11.8<br>20<br>4<br>55<br>23 | 10<br>3<br>4<br>1<br>12<br>48 |

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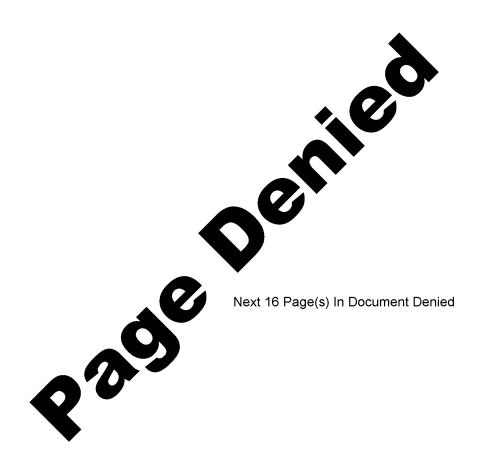
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# (a) Cont.

| German Consumers.   | <u> 1949</u> .      | 1st Half<br>1950. |
|---|---------------------|-------------------|
| Local Utilities (KWU)<br>Chemical Industry<br>Miscellaneous | 10<br>101<br>27     | 1<br>3<br>68      |
|   | <del>uniq-dea</del> |                   |
|   | 882 (56%)           | 223 (34%)         |
|   | Managangama '       |                   |
| (b) Soviet Consumers.                                       |                     |                   |
| Indirect Reparations<br>Red Fleet<br>Remainder              | 547<br>48<br>86     | 330<br>14<br>81   |
|   | e                   | -                 |
|   | 682 (44%)           | 425 (66%)         |
| (o) Total   | 1,564 (100%)        | 648 (100%)        |
|   | Historia            | . مينونين         |

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